FIG. 1

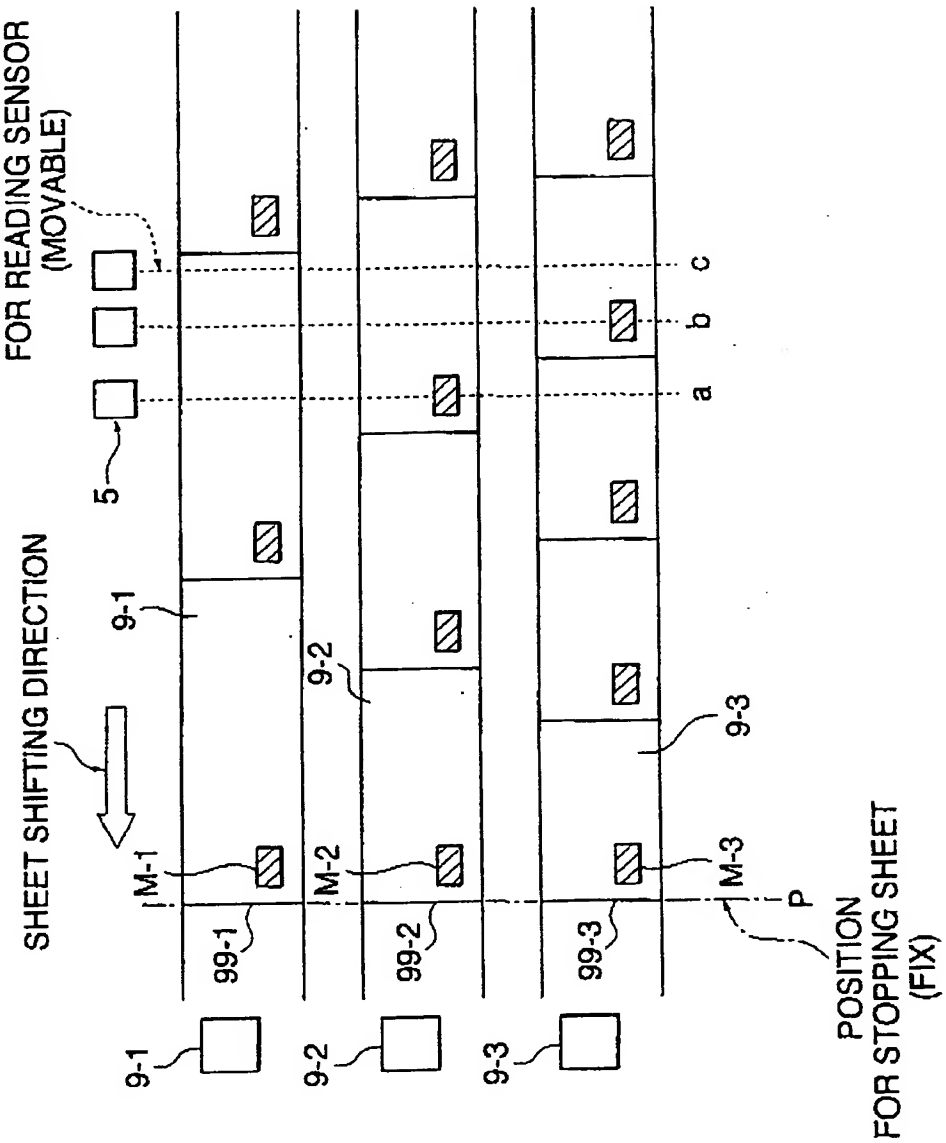

POSITION
FOR READING SENSOR
(MOVABLE)
SHEET SHIFTING DIRECTION
5
9-1
9-2
9-3
M-1
M-2
M-3
99-1
99-2
99-3
a
b
c
P
POSITION
FOR STOPPING SHEET
(FIX)

FIG. 2

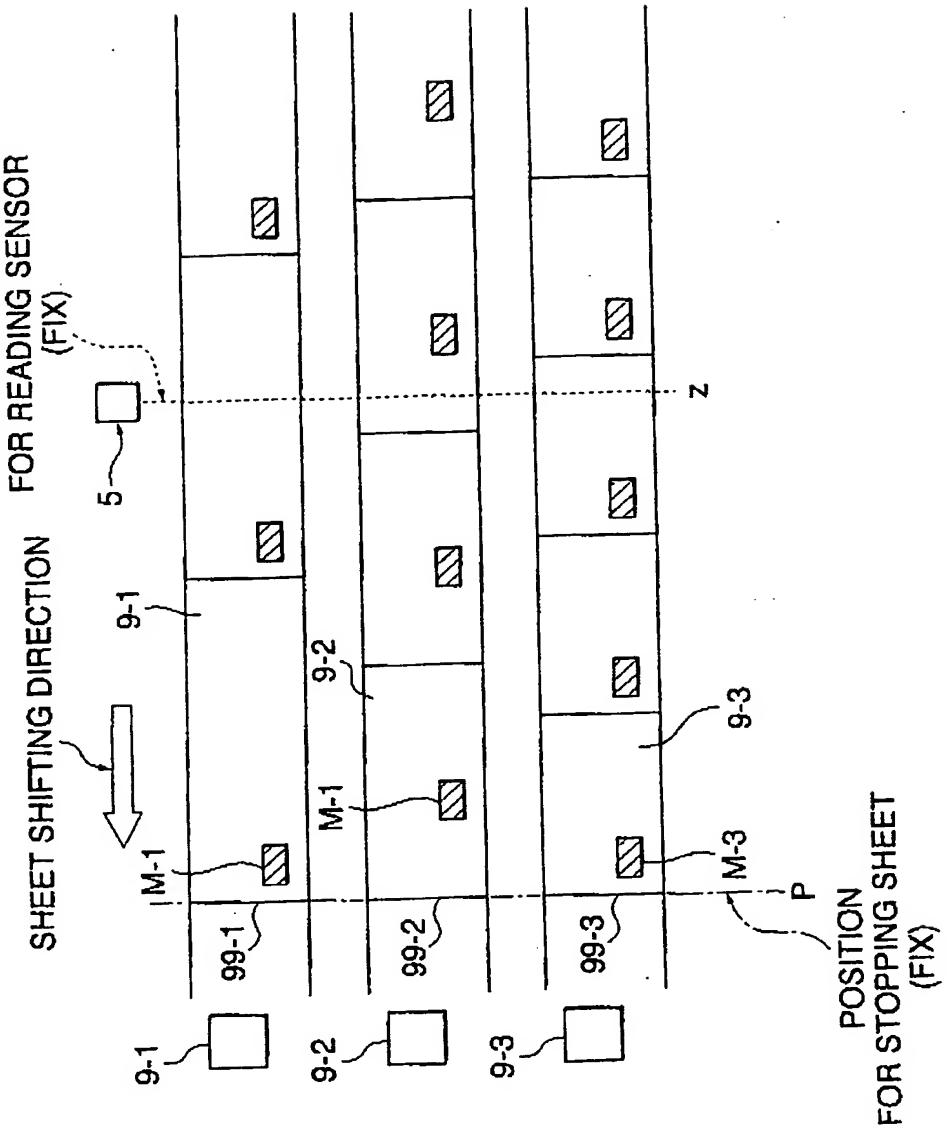

POSITION
FOR READING SENSOR
(FIX)
5
SHEET SHIFTING DIRECTION
9-1
9-2
9-3
M-1
M-1
M-3
P
Z
99-1
99-2
99-3
9-1
9-2
9-3
POSITION
FOR STOPPING SHEET
(FIX)

FIG. 3

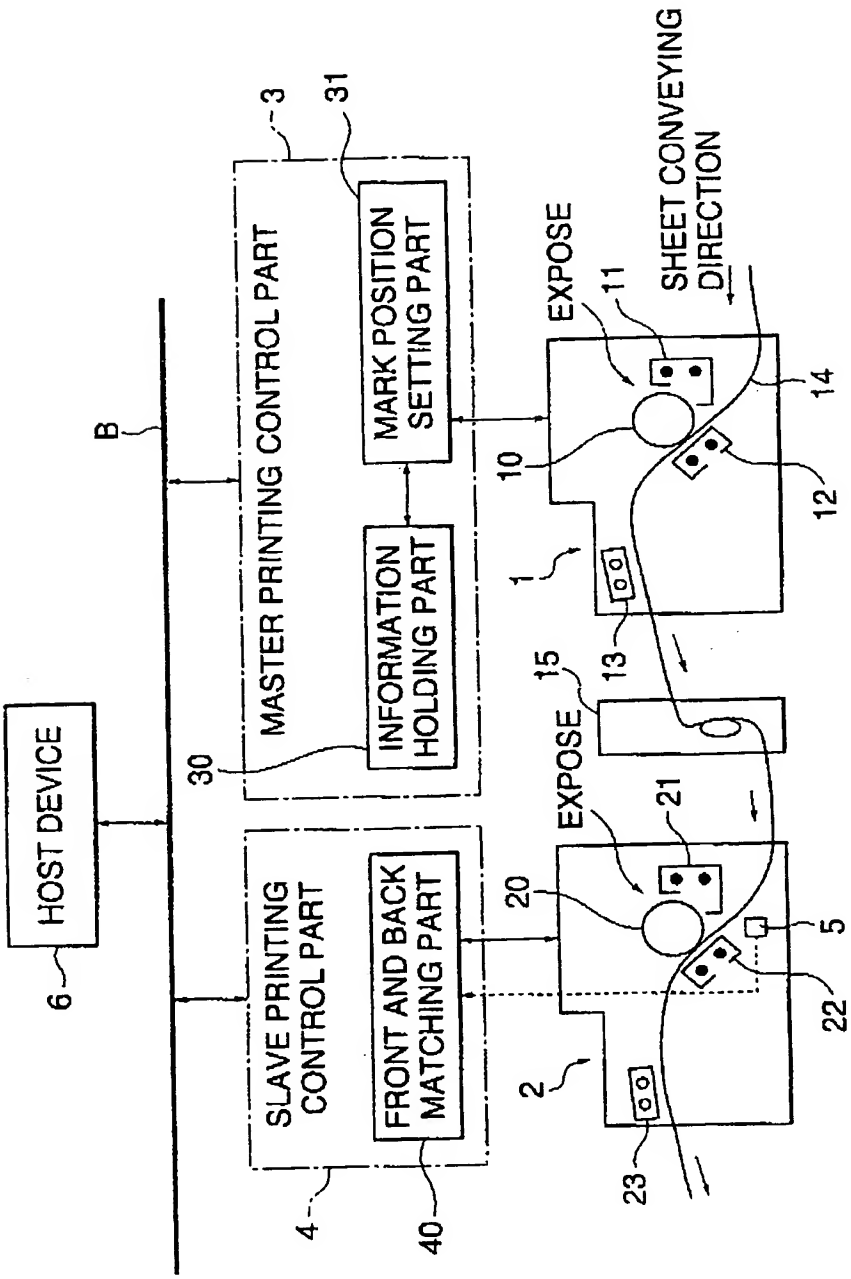

HOST DEVICE
6
B
MASTER PRINTING CONTROL PART
3
MARK POSITION SETTING PART
31
INFORMATION HOLDING PART
30
SLAVE PRINTING CONTROL PART
4
FRONT AND BACK MATCHING PART
40
EXPOSE
11
10
1
13
12
14
SHEET CONVEYING DIRECTION
EXPOSE
15
EXPOSE
21
20
2
23
22
5

FIG. 4

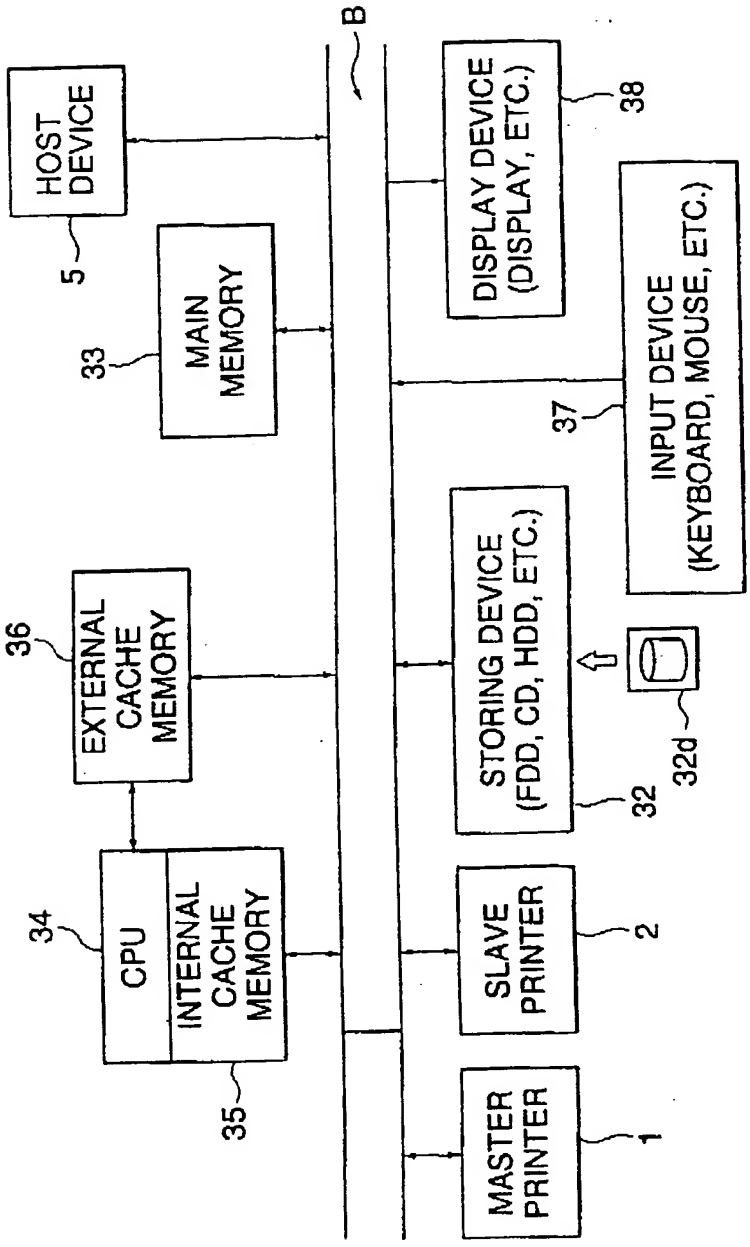

B
HOST DEVICE
5
MAIN MEMORY
33
DISPLAY DEVICE (DISPLAY, ETC.)
38
INPUT DEVICE (KEYBOARD, MOUSE, ETC.)
37
EXTERNAL CACHE MEMORY
36
STORING DEVICE (FDD, CD, HDD, ETC.)
32
32d
CPU
INTERNAL CACHE MEMORY
34
35
SLAVE PRINTER
2
MASTER PRINTER
1

FIG. 5

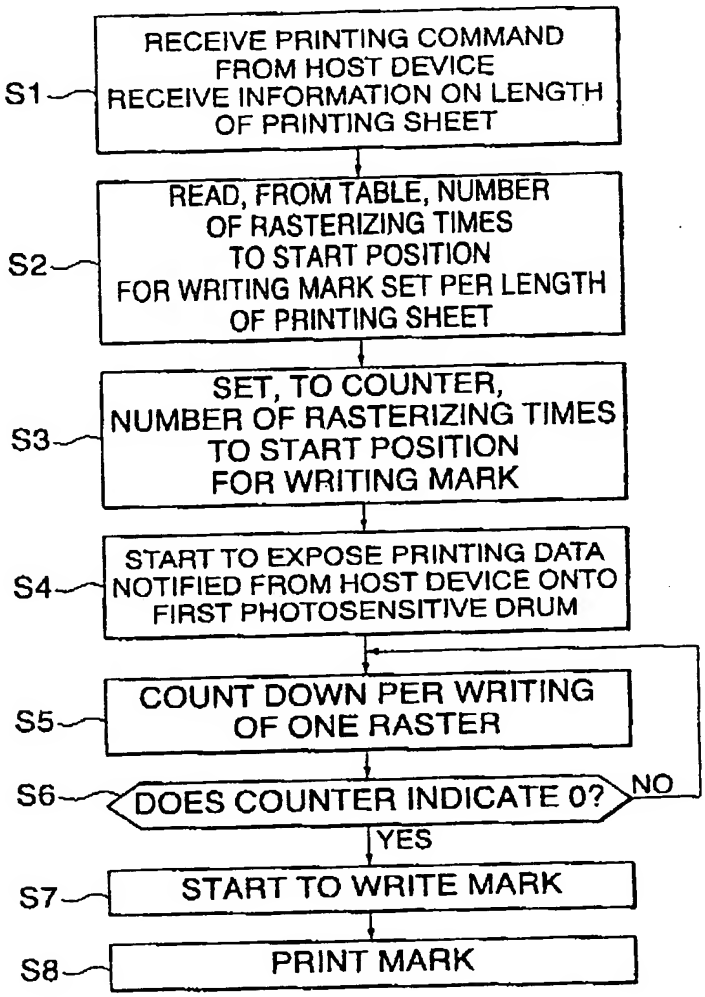

S1
RECEIVE PRINTING COMMAND FROM HOST DEVICE RECEIVE INFORMATION ON LENGTH OF PRINTING SHEET
S2
READ, FROM TABLE, NUMBER OF RASTERIZING TIMES TO START POSITION FOR WRITING MARK SET PER LENGTH OF PRINTING SHEET
S3
SET, TO COUNTER, NUMBER OF RASTERIZING TIMES TO START POSITION FOR WRITING MARK
S4
START TO EXPOSE PRINTING DATA NOTIFIED FROM HOST DEVICE ONTO FIRST PHOTOSENSITIVE DRUM
S5
COUNT DOWN PER WRITING OF ONE RASTER
S6
DOES COUNTER INDICATE 0?
NO
YES
S7
START TO WRITE MARK
S8
PRINT MARK

FIG. 6

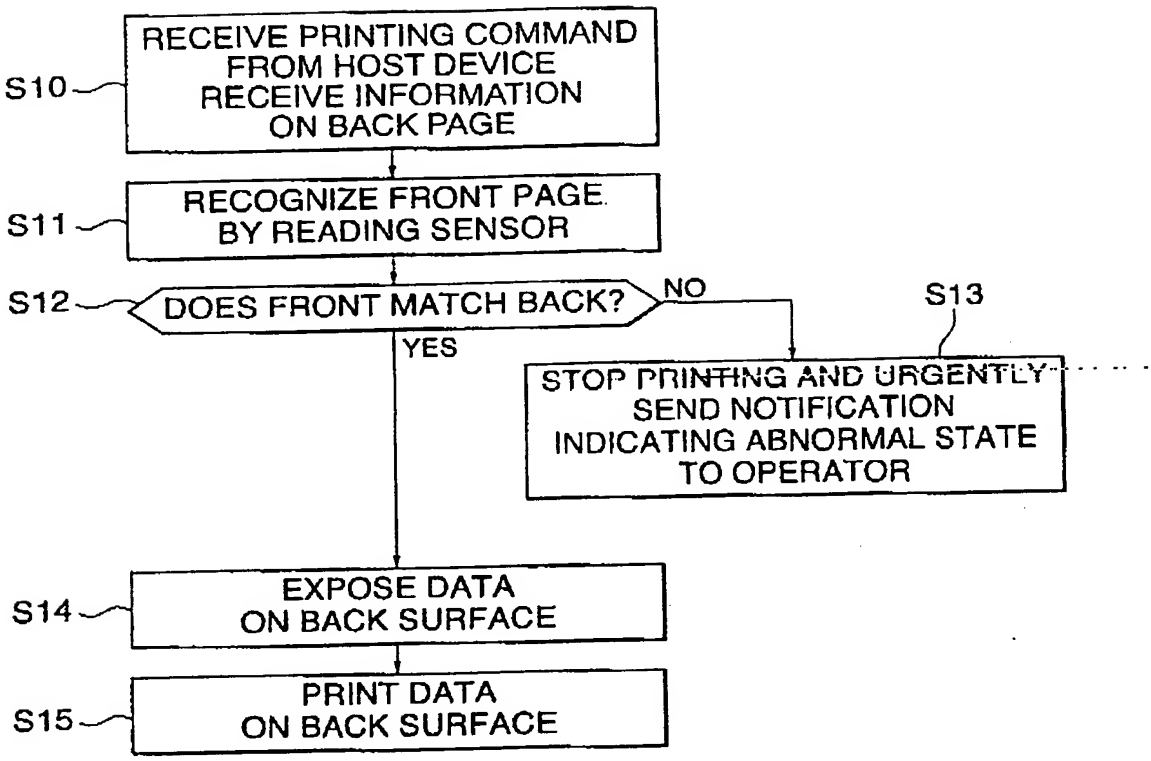

S10
RECEIVE PRINTING COMMAND FROM HOST DEVICE RECEIVE INFORMATION ON BACK PAGE
S11
RECOGNIZE FRONT PAGE BY READING SENSOR
S12
DOES FRONT MATCH BACK?
NO
YES
S13
STOP PRINTING AND URGENTLY SEND NOTIFICATION INDICATING ABNORMAL STATE TO OPERATOR
S14
EXPOSE DATA ON BACK SURFACE
S15
PRINT DATA ON BACK SURFACE

FIG. 7

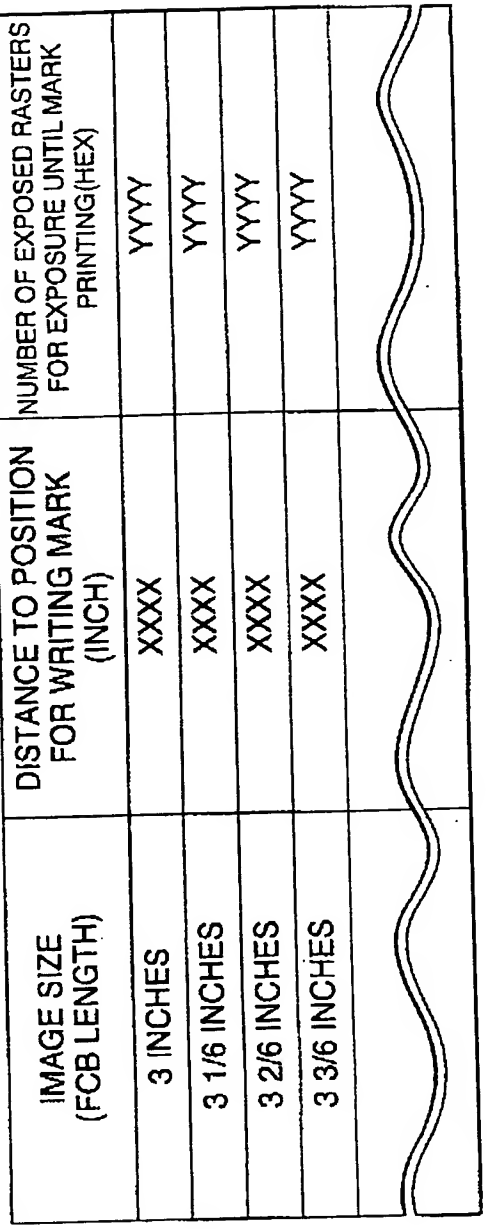

T
IMAGE SIZE (FCB LENGTH)
DISTANCE TO POSITION FOR WRITING MARK (INCH)
NUMBER OF EXPOSED RASTERS FOR EXPOSURE UNTIL MARK PRINTING(HEX)
3 INCHES
XXXX
YYYY
3 1/6 INCHES
XXXX
YYYY
3 2/6 INCHES
XXXX
YYYY
3 3/6 INCHES
XXXX
YYYY

FIG. 8

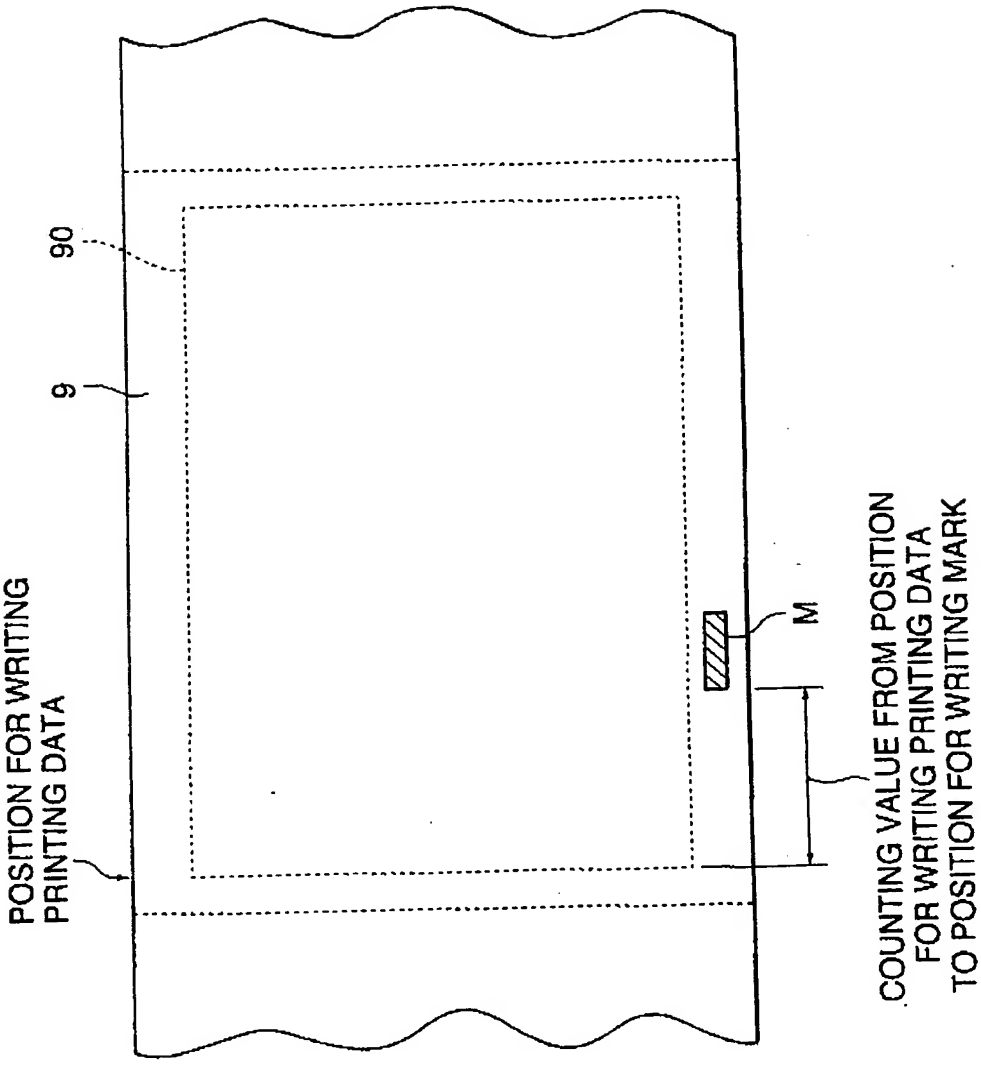

90
9
M
POSITION FOR WRITING PRINTING DATA
COUNTING VALUE FROM POSITION FOR WRITING PRINTING DATA TO POSITION FOR WRITING MARK

FIG. 9

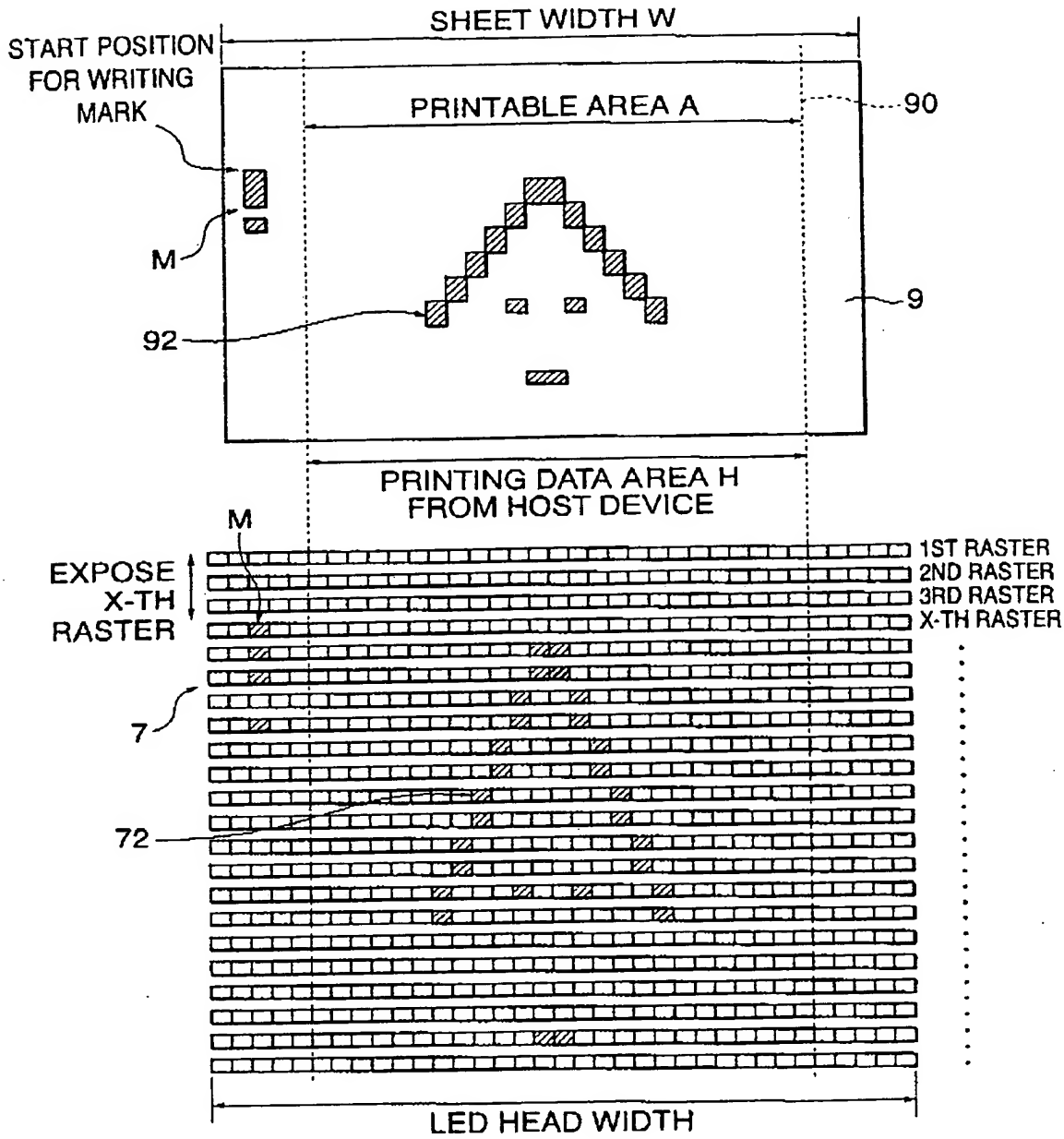
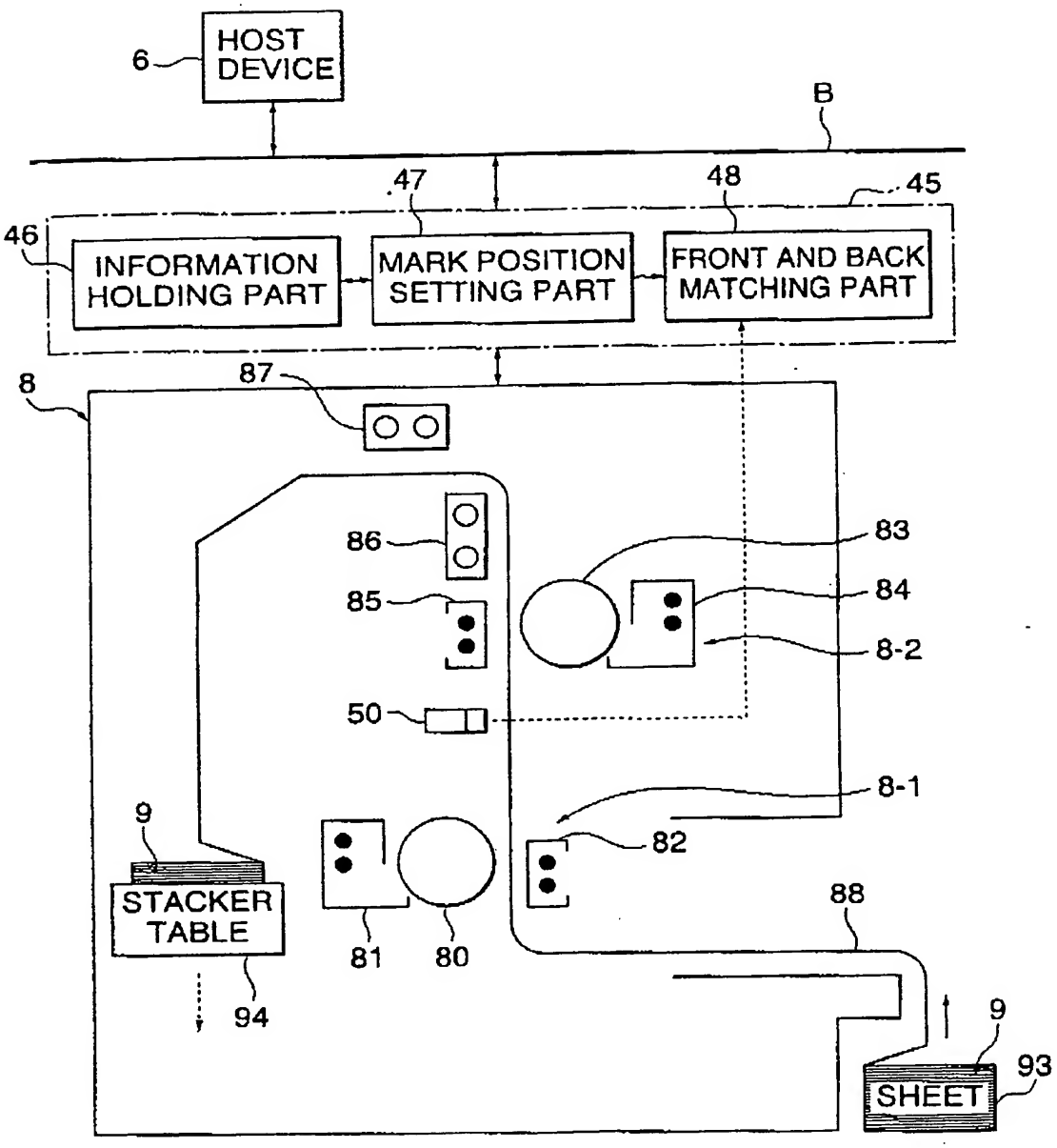

SHEET WIDTH W
START POSITION FOR WRITING MARK
PRINTABLE AREA A
90
M
9
92
PRINTING DATA AREA H FROM HOST DEVICE
M
EXPOSE X-TH RASTER
1ST RASTER
2ND RASTER
3RD RASTER
X-TH RASTER
7
72
LED HEAD WIDTH

FIG. 10


HOST DEVICE
6
B
47
48
45
46
INFORMATION HOLDING PART
MARK POSITION SETTING PART
FRONT AND BACK MATCHING PART
8
87
86
85
83
84
8-2
50
8-1
9
82
STACKER TABLE
88
81
80
94
9
93
SHEET